

Water Right No. 4500-3

1. Considered MARCH 26 1980
2. Name of Applicant JIM SCHUMACHER
3. Post Office Address PART A., PIERRE
4. Amount of Water Claimed 1.9
5. Source of Water Supply 2 WELLS, 167' & 177' DEEP
6. Water to be used for IRRIGATION
7. Acres to be irrigated 132 maximum
acre feet
8. Water to be diverted and used in: HUGHES County
about 8 N, 3 miles WEST of PIERRE
9. PROOF OF PUBLICATION Received (initials) 5-2-80

Not Received _____

APPLICATION

Approved 5-22-80

Subject to WT/10

Not Approved _____

Action deferred _____

Priority

Date

Received 1-24-80 Application Complete yes ☒ no _____ FEE 250⁰⁰

1-24-80

Remarks will be advertised for May 22, 1980 mto put in
wrong file.

Date information and/or

fee or corrected Application received _____

Period of Annual use May - October

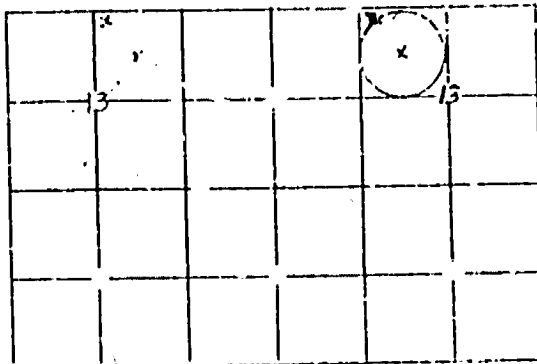
WATER
QUALITY

Received yes ☒ 1/11/80 no _____ APPROVED/CONDITIONAL (Circle one)

WI-1 Description same as application yes ☒ no _____ Remarks _____

Disapproved _____

Returned _____



Diversion Point S APPROX.

CENTER NW 1/4 - &

NW 1/4 NW 1/4 both in

Sec. 13-T112N-R80W

land to be irrigated _____

NW 1/4, SEC. 13-T112N-

R80W

WELL
LOG

Remarks _____

Driller DAKOTA BORING Licensed yes ☒ no _____

Depth 167' & 177'

Water Right No. 4500-3

MAP

Map No. 3724-3 Map located in Water Right X Map file _____

Type of Map Drawn Prepared by Co Agent - R S Edwards

+++++

REVIEWED This Application was reviewed within 30 days of date received, accepted as complete, Number assigned and written up for advertisement before the Board on 3-26-80

J. Westlund
(Signed)

+++++

PROTESTS Letters/Petitions in File - yes _____ no _____ Remarks _____

REMARKS Date
F.F. & C Final Decision, including F.F. & C of Law were adopted _____
OF LAW, Date
FINAL Final Decision mailed to parties and/or parties notified that Final Decision
DECISIONS was adopted _____
ETC.

Remarks _____

No. 4500-3Map No. 3724-3 Water Division No. 3 MISSOURI RIVER District
Above for Office Use 10130105

APPLICATION FOR PERMIT To Appropriate Water within the State of South Dakota

Check one of the following:

New ☒ Vested right ☐ Future Use ☐Change in Diversion ☐ Additional Diversion ☐Change in Acreage ☐ Additional Acreage ☐

1. Name of Applicant Jim Schumacher Phone No. 224-1420
 Post Office Address RFD Box A Pierre State So Dak 57501
(Street, RR, or Box) (Town) (Zip Code)
 If a corporation show date and place of incorporation _____

2. Method of accomplishing work (contract, employment of others, or by direct labor) contract3. Name of diversion work Jim Schumacher Irrigation #24. Amount of water claimed (cubic feet per second) 1.75 cfs5. Source of water supply ground water

6. Location of point of diversion NW 1/4 Sec 13 Twp 112 N, Range 80 W
ZJUELLS, #2, APPROX. CENTER NW 1/4 & #1, NW 1/4 NW 1/4, BOTH IN
SECTION 13-T112N-R80W County Hughes

7. Annual period or periods during which water is to be used May - October8. Use to be made of water, (irrigation, industrial, municipal, commercial, recreation, etc.) irrigation9. For irrigation use, Total number of acres to be irrigated 132

List below each forty acre subdivision, or lot, or fraction thereof and show number of acres to be irrigated in each.

Land Description	No. Acres Irr.
<u>NW 1/4, NW 1/4 Sec 13</u>	<u>33</u>
<u>NE 1/4, NW 1/4 Sec 13</u>	<u>33</u>
<u>SW 1/4, NW 1/4 Sec 13</u>	<u>33</u>
<u>SE 1/4, NW 1/4 Sec 13</u>	<u>33</u>

Land Description	No. Acres Irr.

Attach sheet if more space is needed

10. Time required to complete construction of water supply system 1 years. Additional time required to complete application of water to the proposed beneficial use 1 years.

11. Choice of county newspaper for publication of Notice of Intent to Appropriate Water Daily Capital Journal

12. Principal Features of the Proposed Water Supply System.

A. Works proposed to divert water from its natural source.

One or two wells as needed (see map) will be dug to supply needed volume. First well to be dug will be at center of quarter section.

B. Works proposed to transport water to place of use.

If well at center yields enough there will be no need to transport water. If two wells are needed water from the edge of the quarter will be piped via 6" buried pipe to center.

C. Works proposed to apply water to beneficial use.

standard quarter section center pivot

Estimated Total Cost \$ 64,800

Attachments: Attach Form 2A if diversion from a well or dugout, or if storage of water, is proposed. Attach map (see instructions concerning preparation.)

STATE OF SOUTH DAKOTA)

County of Hughes)
ss

I, Jim Schumacher the applicant, certify that I have read the foregoing application and have examined the attached map and that the matters therein stated are true and that I intend, and am able to complete the necessary construction.

Signed James J. SchumacherSubscribed and sworn to before me this 23rd day of January, 19 80Charles J. Schumacher

Notary Public (or other qualified officer)

WATER RIGHT APPLICATION APPROVAL

The Board of Water Management hereby approves Water Right Application No. 4500-3

JIM SCHUMACHER (Applicant) PART A, PIERRE (Post Office Address)
SOUTH DAKOTA 57501 (State) With the following qualifications.

The irrigation well(s) approved under this Permit will be located near domestic wells and other irrigation wells which may obtain water from the same aquifer. The irrigation well owner, under this Permit, shall control his irrigation withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in irrigation wells having prior water rights.

Date of first receipt of application JANUARY 24, 1980
 Date of return to applicant for correction, amendments or changes required _____, 19____
 Date of receipt of corrected application _____, 19____
 Approved MAY 22, 1980, Recorded in Book 21 Page 182

WATER RIGHT PERMIT NO. 4500-3

The Board of Water Management hereby grants and issues this Water Right Permit No. 4500-3 authorizing the construction of the water use system and the putting of water to beneficial use as stated in the Application and as qualified in the Water Right Application approval, subject, however, to the following limitations and conditions:

1. The date from which applicant may claim right is JANUARY 24, 1980
2. The equivalent of at least one-fifth of the work above specified is to be completed on or before NOVEMBER 22, 1980
3. The whole of said work is to be completed on or before MAY 22, 1981
4. The limit of time from proof of beneficial use or water appropriated in accordance herewith is MAY 22, 1982
5. The water appropriated shall be used for the purpose of IRRIGATION
6. The prior right of all persons who, by compliance with the laws of the State of South Dakota, have acquired a right to the use of water must not be injuriously affected by this appropriation.
7. The amount of the appropriation herein granted shall not exceed 1.9 cubic feet per second; neither shall it exceed the capacity of the above described water supply system, nor shall it exceed the amount of water needed for beneficial uses served, and if for irrigation purposes said appropriation must be limited to not more than 2 acre feet per acre per year and be limited to not more than one-seventieth (1/70) of one cubic foot of water per second of flow for each acre of land to which water is actually and beneficially applied for irrigation on or before MAY 22, 1982; said water to be used during the following described annual period MAY - OCTOBER

Witness my hand this 30th day of MAY, 1980

THE BOARD OF WATER MANAGEMENT

By John Hatch
 Chief Engineer, Water Rights

Certificate of Construction Issued _____, 19____

Water License Issued _____, 19____

4-78

Water Level Information:
 Static water level _____ below land surface
 If flowing: closed in pressure _____ PSI
 rate of flow _____ GPM
 Controlled by:
☒ Valve ☐ Reducers ☐ Other
 If other; specify _____

Well Test Data:

☒ Pumped

☒ Bailed Describe: _____

☒ Other _____

Pumping Level Below Land Surface

_____ ft. After	_____ Hrs. pumped	_____ GPH
_____ " "	_____ " "	_____ " "
_____ " "	_____ " "	_____ " "

Well Log:		Depth
Formation	From	To
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
10	10	10
11	11	11
12	12	12
13	13	13
14	14	14
15	15	15
16	16	16
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90	90	90
91	91	91
92	92	92
93	93	93
94	94	94
95	95	95
96	96	96
97	97	97
98	98	98
99	99	99
100	100	100

(Use Back If Necessary)

Date Completed: 7-18-79

Driller: Daniel B. Boney License NO. 5760
Driller's or Firm's Name

Address Lebanon

Signed By Ernest W. ... Date 7-2-1982

Remarks:

#2

Well Owner: Jim Schumacher
Name: Pierre
Address:

North

Mark location
with an "X"

	North		
W			E
			

County Adair
 Sec. 13 Twp. 12 Rg. 80

Domestic Municipal Test
 Irrigation Industrial Holes
 Stock

☐ Forward Rotary ☐ Bored ☐ Jetted
☐ Reverse Rotary ☐ Cable ☐ Other

Diameter of hole 4 1/2" (114 mm)
 Depth 177' (54 m)
 Casing ☒ Steel ☐ Concrete
☒ Plastic ☐ Other
 If other, specify _____

Was casing end left open yes
Was a well screen installed no
Describe Well Screen phys.
Diameter 2 Material phys.
Slot size 1/2 in.
Was well gravel packed no
Was well grouted no
Was water sample taken no

Remarks:

Static water level _____ below land surface
If flowing: closed in pressure _____ PSI
rate of flow _____ GPM

Controlled by: ☒ Valve ☐ Reducers ☐ Other
If other; specify _____

☐ Pumped
☐ Balled Describe: _____
☐ Other _____

Pumping Level Below Land Surface		ft. After		Hrs. pumped		GPM
_____	" "	_____	" "	_____	" "	_____
_____	" "	_____	" "	_____	" "	_____

Formation	From	To
Top Soil	6	8
Thin Clay	20	20
Thin Clay	20	24
Thin Clay	24	28
Thin Clay	28	32
Thin Clay	32	36
Thin Clay	36	40
Thin Clay	40	44
Thin Clay	44	48
Thin Clay	48	52
Thin Clay	52	56
Thin Clay	56	60
Thin Clay	60	64
Thin Clay	64	68
Thin Clay	68	72
Thin Clay	72	76
Thin Clay	76	80
Thin Clay	80	84
Thin Clay	84	88
Thin Clay	88	92
Thin Clay	92	96
Thin Clay	96	100

(Use Back if Necessary)

Date Completed: 7-18-79

Driller: Patton, Boring 174
Driller's or Firm's Name License NO.

Box 174, Lumberton
Address

Signed By _____ Date _____

Form 2A - Wells, Dugouts or Water Storage Dams (Supplement to Form 2)

12. Principal Features of the Proposed Water Supply System (continued).

D. Well Information

- (1) Drill Hole, Diameter 3 1/2", Depth #1 - 180' #2 - 170'
 (2) Casing, Type steel (wood, concrete, steel, etc), Diameter 1 1/2", Thickness _____
 (3) Screen, Type steel rod, Diameter 1 1/2", Length 10'
 (4) Gravel Pack, Thickness 10", Length of gravel pack 150'

E. Dugout Information or Estimates

- (1) Surface dimensions, _____, Depth _____

F. Fill out for Either a Well or a Dugout.

(1) Water Bearing Materials. (Attach a copy of test well log)

- Depth to top of water bearing material #1 - 153' #2 - 147'
 Depth to bottom of water bearing material #1 - 177' #2 - 167'
 Depth to water (ground surface to water level) #1 - 130' #2 - 125'

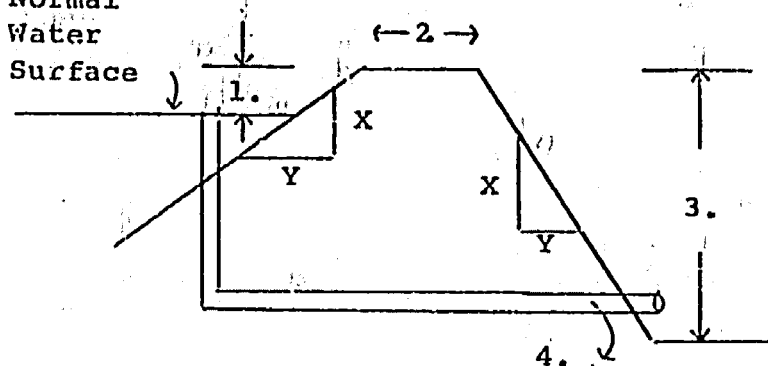
(2) Distance to nearest existing household or livestock watering well.

- On same owner's property 235 rds.
 On property owned by others 120 rds.

G. Water Storage Dams

If the proposed water use system contains one or more water storage dams, please show in the space below, the height, length, maximum water depth, surface area, drainage area, storage capacity, dam slope, dimensions, location and size of outlet works, of each storage dam. The location of each water storage dam should be shown on the water right map.

Normal
Water
Surface



1. Freeboard _____
 2. Crest width _____
 3. Height of Dam _____
 4. Outlet dimensions:
 Pipe diameter _____
 Spillway width _____
 X & Y slope:
 Upstream _____
 Downstream _____
 Surface area of impoundment _____
 Drainage area above dam _____

James F. Schumacher
 Signature Applicant

STATE CONSERVATION COMMISSION
SOUTH DAKOTA DEPARTMENT OF AGRICULTURE

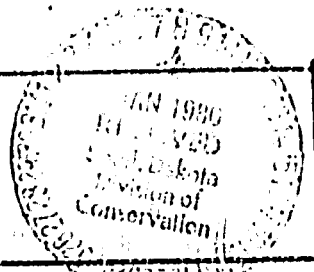
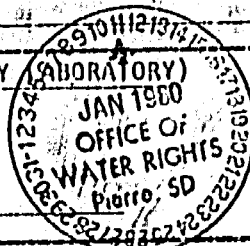
OWNERS NAME: JIM SCHUMAKER OWNERS ADDRESS: Part A, Pierre
COUNTY LAND LOCATED IN: Hughes PHONE: 224-1420
TINANT'S NAME AND ADDRESS: (If Other Than Owner) _____

In accordance with State law SDCL 46-5-6.5, If a water right is granted with a conditional permit (Soil/Water Compatibility), a copy of such conditional permit must be filed with the County Register of Deeds.
This action must be taken by the holder of a water right within 6 months of receipt of such water right.

LEGAL DESCRIPTION: (Show Legal Description to Nearest 10 Acres.)
1. WELL LOCATION OR DIVERSION POINT: NW 1/4, SE 1/4 NW 1/4 Sec 13, T112 N R80 W
2. SURFACE WATER SOURCE _____
3. LOCATION OF AREA TO BE IRRIGATED: NW 1/4 Sec 13, Township 112 N Range 80 W
4. INDICATE NON-IRRIGATED AREAS AND (APPROX.) ACRES ON MAP: (Farmstead, shelterbelts, wetlands, etc.)
TYPE OF IRRIGATION: (Show approximate acres under each type of system)
5. GRAVITY _____ TOWLINE _____ CENTER PIVOT 130 ACRES OTHER (Specify) _____
6. CROPS TO BE IRRIGATED Corn, Soybeans, Alfalfa
7. SHOW ANY PORTION OF LAND THAT PRESENTLY HOLDS AN IRRIGATION PERMIT; YEAR OBTAINED: _____
LAND: _____
IN WHAT NAME: _____

WATER QUALITY: (TO BE COMPLETED BY SDSU WATER QUALITY LABORATORY)

8. SAMPLE NUMBER: 79-677, 79-680
9. SALINITY (EC X 10⁶) _____
10. SODIUM (SAR) _____ ADJUSTED (SAR) _____



I hereby certify that I personally obtained or that I personally observed the taking of a sample of the water to be used in irrigating the above-described land. I also hereby certify that the required procedures for the taking of the sample (see back) were followed, and that the sample was taken at 4 A.M. (P.M.), on October 27, 1979, at the following location: Test wells #1 & 2 NW 1/4 Sec 13 T112 N R80 W
(individual who took sample if other than applicant). I also hereby certify that the water sample taken has NOT been adulterated or tampered with in any manner, and is TRULY REPRESENTATIVE of the water which will be used in irrigating the above-described land.

I also hereby certify that a chemical analysis of the irrigation water representative of that used to irrigate shall be acquired from South Dakota State University and the soils information has been acquired from _____ Conservation District, County Extension Office or Soil Conservation Service; and further, that the legal description for the location of the well and land to be irrigated is true and correct.

I understand that the Division of Conservation or agents thereof may obtain another water sample for the purpose of validating the water sample analysis taken at the time of application (SDCL 46-5-6.4).

SUBSCRIBED AND SWORN BEFORE ME THIS
11th DAY OF December, 1979.

Walter J. Schumaker
(NOTARY PUBLIC)

James F. Schumaker
APPLICANT'S SIGNATURE

Frank L. Harner
Director, Division of Conservation

APPROVED

DISAPPROVED

☒ CONDITIONALLY APPROVED

IMPORTANT

action by the Department of Agriculture or the State Conservation Commission is not the final action on any application.

In all cases a WATER RIGHT must be obtained from the State Water Rights Commission.

Water Quality Control Laboratory
South Dakota State University
Brookings, South Dakota 57007

Submitted by: J. J. Schaefer, Sr.
Address: O/O 20601 LORAIN RD.
Lambert, SD 57455

Date Rec'd: November 2, 1979
Sample No.: 79-579
Identification: 11-11
11-1, 100-13, T 112H, R 607

WATER ANALYSIS

Calcium (Ca)	112	ppm*	5.60	me/l**
Magnesium (Mg)	39	ppm	3.20	me/l
Sodium (Na)	92	ppm	4.00	me/l
Potassium (K)	12	ppm	0.32	me/l
Sulfate (SO ₄)	377	ppm	7.84	me/l
Nitrate (as N)	12	ppm	0.32	me/l
Chloride (Cl)	229	ppm	3.76	me/l
Bicarbonate (HCO ₃)		ppm		me/l
Carbocation (CO ₃)		ppm		me/l
Iron (Fe)		ppm		me/l
Fluoride (F)		ppm		me/l
Hardness (EDTA as CaCO ₃)	188	ppm (as CaCO ₃)		me/l
Alkalinity (Methy. Orange)	0	ppm (as CaCO ₃)		me/l
Alkalinity (Phenolphthalein)	125.1	micronhos per cm at 25° C.		me/l
Electrical Conductivity	1.90	Adjusted SAR	3.70	me/l
Sodium Adsorption Ratio	31.00	% of cations		me/l
Sodium	0.00	me/l		me/l
Residual sodium carbonate	7.00			me/l
pH				me/l
Others:				me/l

* ppm = parts per million
** me/l = milliequivalents per liter

*** g.p.g. = grains per gallon

COMMENTS: Tot. 1 1/2 mg
Tot. 1 1/2 mg

17.50 /1
11.94 /1

By: Shirley Litten

Service Performed

Amount Due

15.00

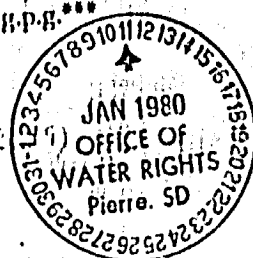
Make checks payable to: Water Quality Laboratory

Cut along dotted line and return the lower portion with payment

Sample No. 79-579

Amount Enclosed \$

Signed



()
SOUTH DAKOTA DEPARTMENT OF AGRICULTURE
DIVISION OF CONSERVATION

NAME OF APPLICANT Jim Schumaker, Pierre, SD

SOIL RESTRICTIONS:

THE SOIL(S) LISTED BELOW CANNOT BE IRRIGATED:



RECOMMENDED MANAGEMENT:

1. Water should not be applied more than NA times during the irrigation season.
2. Each uninterrupted application (one rotation of center pivot) should be of at least 2-3 inches of water.
3. ☒ Yes () No Surface drainage suggested on the swale area if
4. () Yes () No water tends to pond.
Subsurface drainage suggested on _____
5. ☒ Deep tillage (for the purpose of aiding movement of water through dense sub
COMMENTS: Occasional use on heavier soil areas.
6. () Heavy fall application of irrigation water.
7. Type of irrigation system recommended for use on this application pivot

GENERAL COMMENTS:

Good unit. Gentle rolling topography grants you surface relief except possibly the swale area (Onita soils) towards the east side. Surface grading of the swale to assure complete surface drainage should be worth-while if you are looking for top production.

Copy to applicant
Copy to Water Rights
Copy on File

Department of Agriculture

DIVISION OF CONSERVATION

Anderson Building, Room 322 Pierre, South Dakota 57501
Phone 605/773-3258

IRRIGATION PROGRAM: 773-3259

Re: January 11, 1980

Mr. James Schumacher
P.O. Box 1
Pierre, South Dakota 57501



Dear Mr. Schumacher:

This is in reference to your VI#1 Soil/Water Compatibility Application Form for the NW 1/4 Section 13-112N-R80W

At this time we have conditionally approved your VI#1 Form. Your application is conditional as your water and soils are marginal in nature and there does exist a possibility of land damage. However, with a high level of water and land management, the risks are minimal.

Your conditionally approved application is now being forwarded to the Water Rights Commission for their action. Please be advised that the Water Rights Commission will make the final determination on your water right application.

The following conditions have been added to your application. If these limits of salt and sodium build-up in the soil are exceeded, or soil restrictions are not followed, the State Conservation Commission may request suspension of your water right. However, the primary purpose of imposing these conditions upon your application is to call your attention to the necessity of avoiding salt and sodium build-up beyond these levels. As you reach or exceed these levels and crop damage begins to occur. We urge you to begin a system of monitoring the salt and sodium conditions in your soil so that you may take action on your own if the build-up approaches these levels. In relation to the overall cost of installing and maintaining an irrigation system, the cost of monitoring soil conditions will be insignificant.

If you desire assistance in establishing a monitoring system, you may obtain assistance from a variety of places including this office, the Water Quality Laboratory at South Dakota State University, your Extension Agent or your local Conservation District.

CONDITIONS:

SALT: Maximum allowable salt build-up in soil profile: 3000 micromhos/cm
SODIUM: Maximum allowable sodium build-up in soil profile: 8% sodium saturation.
SOIL RESTRICTIONS: As noted on management form.

Sincerely,

Keith Harner, Director
Division of Conservation

Enclosure: Management Form

Publsh first publication, on or before April 25, 1980

115. 4500-3

NOTICE OF HEARING ON
APPLICATION TO APPROPRIATE WATER

Pierre South Dakota 57501

April 15, 1980

Notice is hereby given that Jim Schumacher whose post office address is Pierre, South Dakota, has made an application in accordance with the provisions of SDCL 46-1-1 thru 46-1-9, 46-1-14; 46-2-9 thru 46-2-11, 46-2-13; 46-5-1 thru 46-5-8; 46-5-10 thru 46-5-22, 46-5-41; 46-6-3, 46-6-3.1, 46-6-5, 46-6-6.1, 46-6-10, 46-6-14 and Board Rules ASD 52:01:01:01 thru 52:01:01:13, for a permit to appropriate for beneficial use 1.95 cubic feet of water per second of time from groundwater (two wells) through the Schumacher Irrigation #2, the point(s) of diversion of which is(are) to be located in the approximate center of NW 1/4 and NW 1/4 NW 1/4

of Section 13, Twp. 112N, Range 18W. Said water to be used for the purpose of providing irrigation on portions of the following described land:
NW 1/4, Section 13, T112N, R00W

This Application No. 4500-3 will be considered by the Water Management Board at Civil Defense Room, State Capitol Bldg., Pierre, South Dakota upon the 22nd day of May, 1980 at 10 A.M. The Board is authorized to make a determination on this application at the hearing. All interested persons may appear and be heard. Any person who may be affected by a Board decision who desires to present evidence or cross-examine witnesses according to SDCL 1-26 may notify the Board in writing prior to the hearing or orally at the hearing.

This hearing is an adversary proceeding. Any person has the right to be present or to be represented by a lawyer. These and other due process rights will be forfeited if they are not exercised at the hearing. Decisions of the Board may be appealed to the Courts as provided by law. Any handicapped person wishing to attend this hearing can contact the Water Rights Division, DWRP, Foss Building, Pierre, SD prior to the hearing date for assistance to assure access to the hearing.

WATER MANAGEMENT BOARD

BETTY WESTLUND
Water Rights Specialist

cc: Jim Schumacher, Part A, Pierre, SD 57501

Form 8 Proof of Publication - Notice of
Intent to Appropriate Water

No. 4500-3

STATE OF SOUTH DAKOTA

County Hughes

I, John J

certify that the annexed pro

Water was taken from the

A newspaper which during t
herein after stated, has been

city

County of Hughes
that the said notice was pub
two dates:

April 24, 1980; and

May 1, 1980

John J. Skyplo
(Signature)

Business Manager
(Title)

May 1, 1980
(Date Signed)

Secreta M. Putzler

MY COMMISSION
EXPIRES MAY 27, 1985

No. 4988-2 dly Apr. 24-May 1

4500-3

NOTICE OF HEARING ON
APPLICATION TO
APPROPRIATE WATER

Notice is hereby given that Jim Schumacher whose post office address is Pierre, South Dakota has made an application in accordance with the provisions of SDCL 46-1-1 thru 46-1-14, 46-2-9 thru 46-2-11, 46-2-13, 46-5-1 thru 46-5-8, 46-5-10 thru 46-5-22, 46-5-41, 46-6-3, 46-6-3.1, 46-6-5, 46-6-6.1, 46-6-10, 46-6-14 and Board Rules ARSD 52:01:01.01 thru 52:01:01.13 for a permit to appropriate for beneficial use 1.95 cubic feet of water per second of time from ground-water (two wells) through the Schumacher Irrigation No. 1, the point(s) of diversion of which

are to be located in the approximate center of NW 1/4 and NW 1/4 NW 1/4 of Section 13, Twp. 112N, Range 80W. Said water to be used for the purpose of providing irrigation on portions of the following described land: NW 1/4 Section 13, T112N, R80W. This Application No. 4500-3 will be considered by the Water Management Board at Civil Defense Room, State Capitol Bldg. Pierre, South Dakota upon the 22nd day of May, 1980 at 10 A.M. The Board is authorized to make a determination on this application at the hearing. All interested persons may appear and be heard. Any person who may be affected by a Board decision who desires to present evidence or cross-examine witnesses according to SDCL 1-28

may notify the Board in writing prior to the hearing or orally at the hearing. This hearing is an adversary proceeding. Any person has the right to be present or to be represented by a lawyer. These and other due process rights will be forfeited if they are not exercised at the hearing. Decisions of the Board may be appealed to the Courts as provided by law. Any handicapped person wishing to attend this hearing can contact the Water Rights Division, DWR, Foss Building, Pierre, SD prior to the hearing date for assistance to assure access to the WATER MANAGEMENT BOARD hearing.

BETT WESTLUND
Water Rights Specialist



RECEIPT

WATER RIGHTS COMMISSION
State of South Dakota

No 4 7251

PIERRE, February 25, 1960

RECEIVED OF Jim Schumacher, Part A, Pierre SD

the following amount in fees for services rendered as provided for by law:

Fee for Application for Permit to Appropriate Water No. <u>4500-3</u> (examination, processing, recording and filing)	250	00
Fee for Inspecting Construction, and issuing Cert. of Construction No.		
Fee for Inspecting Beneficial Use, and issuing Water License No.		
Fee for issuing Location Certificate-Dry Draw, No.		
Fee for filing		
Fee for certified copy of		
Fee for Print copy of map		
Fee for Certifying		
Fee for		
(any other work as provided by law)		
TOTAL	250	00

WATER RIGHTS COMMISSION

By John Hatch
Chief Engineer, Executive Officer
JOHN HATCH lv



Department of Water & Natural Resources

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501-3181

March 23, 1987

JAMES SCHUMACHER
ST RTE #149
PIERRE, SD 57501

NOTICE

Re: Violation of Requirement To Submit 1986 Irrigation
Questionnaire

Our records indicate that the 1986 Irrigation Questionnaire has not been submitted for Permit No(s). 3354-3, 4500-3. The request for the Questionnaire was dated November 3, 1986. The Water Management Board has directed that owners of water permits who have not submitted 1986 Irrigation Questionnaires be given notice of hearing(s) to be held by the Board to determine if any action is to be taken concerning the violation.

The hearings will be held at 2:00 pm, May 6, 1987 in Room 216, Joe Foss Building, 523 E Capitol, Pierre SD.

The hearing will be conducted pursuant to the provisions of SDCL 46-1-12, 46-1-14, 46-2-9, 46-2-11 and 46-2-17. These are contested case hearings pursuant to procedures contained in SDCL 1-26. Following the hearing(s), the Water Management Board can:

1. Amend Permit No(s). 3354-3, 4500-3 to require the Irrigation Water Use Questionnaire to be submitted each year;
2. Postpone any action;
3. Take no action.

The hearing(s) is an adversary proceeding. The permit owner has the right to be present or to be represented by a lawyer. These and other due process rights will be forfeited if they are not exercised. Decisions of the Board may be appealed to the Circuit Court and the State Supreme Court as provided by law.

JOHN HATCH, Chief Engineer
Water Rights Division
605 773-3352

NOTE: If the questionnaire(s) is received in this office before the hearing date, your name will be deleted from the agenda for the hearing.



Department of Water & Natural Resources

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501-3181

April 24, 1987

3354-3
4500-3

Jim Schumacher
HCR 31 Box 49
Pierre, SD 57501

Dear Mr. Schumacher:

This will acknowledge receipt of and thank you for the return of your 1986 Irrigation Questionnaires. A notice was sent to you March 23, 1987 regarding the Irrigation Questionnaire submittal violation of Water Permit Nos. 3354-3 and 4500-3 and the date hearings were to be held before the Water Management Board to determine any action to be taken concerning the violation.

Please disregard the notice sent to you dated March 23, 1987. Your name has been deleted from the agenda pertaining to these hearings.

If you have any questions, please contact us.

Very truly yours,

A handwritten signature in cursive script, appearing to read "John Hatch".

JOHN HATCH, Chief Engineer
Water Rights Division
605 773-3352

**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3181

No. 4500-3

December 27, 1995

NOTICE TO SUBMIT CHEMIGATION REPORT

**JAMES SCHUMACHER
HCR 37 BOX 149
PIERRE, SD 57501**

Dear Mr. SCHUMACHER:

We recently received your 1995 Irrigation Questionnaire(s) for Permit No(s). 4500-3. You indicated that chemicals (fertilizer, fungicide, insecticide or herbicide) are applied through your irrigation system. According to South Dakota Chemigation Rules, chemigation users are required to keep records of the dates and hours that chemicals are applied, plus the name and quantity of the chemicals applied. We have enclosed 1995 chemigation report form(s) and request that you fill out and return the form(s) in the postage paid envelope provided. Please return the completed forms by January 31, 1996.

If you have any questions or need help filling out the chemigation report(s), you may contact Barry McLaury, Environmental Scientist, 523 E. Capitol, Pierre, SD 57501 (605-773-3352).

Sincerely,

RON DUVALL, Natural Resources Engineer
for JOHN HATCH, Chief Engineer
Water Rights Program

enclosures



January 30, 1996

**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3181

NOTICE

TO: JAMES SCHUMACHER
HCR 37 BOX 149
PIERRE SD 57501

FROM: Ron Duvall, Natural Resources Engineer
for JOHN HATCH, Chief Engineer
Water Rights Program

RE: Failure to Report Chemical Use under Water Permit No(s) 4500-3

The first notice to file chemigation report(s) for Permit No(s) 4500-3 was dated 12/27/95. Our records indicate that we have not received the 1995 chemigation report for Permits No(s) 4500-3. The Water Management Board has directed that owners of water permits who have not submitted the 1995 chemigation report(s) be given notice of violation and of hearing before the Board. The hearing held by the Board is to determine what action is to be taken concerning violation of administrative rule 74:02:09:02(3). This rule requires chemigation users to report the type of chemical applied, the dates, hours and amount of chemical application.

The hearing will be held at 9:45 A.M. on March 6, 1996, in the Floyd Matthew Training Center, Joe Foss Building, 523 East Capitol, Pierre, SD and will be conducted pursuant to SDCL 34A-2A through 34A-2A-5; 46-1-12, 46-1-14, 46-2-11, 46-2-17. These are contested case hearings pursuant to chapter 1-26. According to SDCL 46-1-12, the Board may suspend a permit for a period of up to one year for the first violation or up to three years for the second violation, or cancel a permit for a third violation. Following the hearing, the Water Management Board can:

1. Suspend or cancel Permit No(s). 4500-3 in accordance with applicable provisions of SDCL 46-1-12;
2. Postpone any action; or
3. Take no action.

The hearing is an adversary proceeding. The permit owner has the right to be present or to be represented by a lawyer. These and other due process rights will be forfeited if they are not exercised. Decisions of the Board may be appealed to the Circuit Court and the State Supreme Court as provided by law.

If the chemigation report(s) is(are) received by this office on/or before March 1 1996 your name will be deleted from the board agenda.

NOTE: Please contact the Water Rights Program, Joe Foss Building, 523 East Capitol, Pierre, SD (605-773-3352) to assure access to the meeting room for the handicapped or to obtain an interpreter for the hearing impaired.

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

- Complete Items 1 and/or 2 for additional services.
- Print your name and address on the reverse of this for a so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on a back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.

delivered.

3. Article Addressed to:

James Schumacher
RICK 37 Box 149
Pierre SD 57501

5. Received By: (Print Name)

6. Signature: (Addresser, V Agent)
X / [Signature]

4. Article Number

2 348 318 917

- 4b. Service Type
- ☐ Registered
 - ☐ Express Mail
 - ☐ Return Receipt for Merchandise

- ☒ Certified
- ☐ Insured
- ☐ COD

7. Date of Delivery
JAN 31 1995

8. Addressee's Address (Only if requested and fee is paid)

Domestic Return Receipt

I also wish to receive the following services (for an extra fee):

- ☐ Addressee's Address
- ☐ Restricted Delivery
- ☐ Consult postmaster for fees

Thank you for using Return Receipt Service.

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fees

3. Article Addressed to:

James Schumacher
HCR 37 Box 149
Pierre SD 57501

4a. Article Number

2 348 318 917

4b. Service Type

- | | |
|---|---|
| ☐ Registered | ☒ Certified |
| ☐ Express Mail | ☐ Insured |
| ☐ Return Receipt for Merchandise | ☐ COD |

7. Date of Delivery

JAN 31 1994

5. Received By: (Print Name)

6. Signature: (Addressee or Agent)

X Charles Schumacher

8. Addressee's Address (Only if requested and fee is paid)

PS Form 3811, December 1994

Domestic Return Receipt



February 5, 1996

4500-3
DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3181

Permit No. 4500-3

JAMES SCHUMACHER
19734 285TH AVE
PIERRE, SD 57501

Dear Mr. SCHUMACHER:

I am writing to acknowledge receipt of your 1995 chemigation questionnaire. You may disregard the January 30, 1996 notice of "Failure To Submit Chemigation Questionnaire." The questionnaire has been received and your name is deleted from the Water Management Board agenda.

Sincerely,

Barry A. McLaury
Environmental Scientist
Water Rights Division

STATE OF SOUTH DAKOTA

WATER LICENSE NO. 4500-3

(1) Jim Schumacher, 19734 285th Avenue, Pierre SD 57501 made Application No. 4500-3, January 24, 1980 for a water permit to appropriate 1.9 cubic feet of water per second from groundwater (two wells), Hughes County, South Dakota for irrigation purposes. Permit No. 4500-3, with a priority date of January 24, 1980 was approved May 22, 1980 and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before May 22, 1981 and for the application to beneficial use of said water on or before May 22, 1982.

(2) It is certified that the applicant has complied with the provisions of South Dakota State Law relating to completion of the construction of the water supply system and is entitled to divert 1.78 cubic feet of water per second for beneficial use. The location of the diversion point is approximate center of the NW 1/4 Section 13-T112N-R80W.

(3) The applicant has complied with the provisions of South Dakota State Law relating to the application of water to beneficial use to irrigate the following land:

Section 13-T112N-R80W	NW 1/4 NW 1/4	33 acres
	NE 1/4 NW 1/4	33 acres
	SW 1/4 NW 1/4	33 acres
	SE 1/4 NW 1/4	33 acres
Total		132 acres

(4) Pursuant to South Dakota Water Law 46-5-30.1 Jim Schumacher, 19734 285th Avenue, Pierre SD 57501 the holder and/or owner of Water Permit No. 4500-3 is issued a license to appropriate water, the right to use 1.78 cubic feet of water per second from groundwater (one well) with a priority date of January 24, 1980 from the location specified in (2) of this license. The water to be conducted to and upon lands specified in (3) of this license for the purpose of irrigation. This license is subject to any limitations or qualifications listed in Water Permit No. 4500-3 and subject to South Dakota State Law.

John Hatch
JOHN HATCH, Chief Engineer
Water Rights Program
Department of Environment and Natural Resources

APR 4 1996
date



PERMIT NUMBER 4500-3 Tim Schumacher date 8/8/95

WELL INFORMATION

DRILLING FIRM				
DEPTH, ft				
CASING TYPE				
DIAMETER, in				
LENGTH, ft				
SCREEN TYPE				
LENGTH, ft				
STATIC H2O LEVEL, ft				

PUMP INFORMATION

PUMP MAKE	Fairbanks Morse			
MODEL	no model No.			
SIZE				
CAPACITY, gpm	800 gpm			
MOTOR MAKE	GE			
MODEL	5K 6257XM500C			
HORSEPOWER, hp	100			

RPM 1765

IRRIGATION SYSTEM

SYSTEM TYPE	Electric			
MAKE	680			
LENGTH, ft	1312			
CP, NUMBER OF TOWERS	8			
CP, END GUN	YES -- (NO)	YES -- NO	YES -- NO	YES -- NO
CP, HIGH OR LOW PRESSURE	High			
CAPACITY, gpm	800 gpm			
GATE PIPE DIAMETER, in				
SPACING OF GATES, ft				
GUN, NOZZLE SIZE, in				
GUN, HOSE SIZE, in				
GUN, HOSE LENGTH, ft				

DISTRIBUTION LINES OR CANALS

TYPE				
SIZE, in				
LENGTH, ft				

DAM INFORMATION

HEIGHT TO CREST, ft				
HEIGHT TO PRIMARY, ft				
HEIGHT TO SECONDARY				
CREST WIDTH, ft				
CREST LENGTH, ft				
SPILLWAY LENGTH, ft				
SPILLWAY WIDTH, ft				
APPROX STORAGE, AF				
STORAGE TO CREST, AF				
OUTLET TUBES, DIA, in				
TYPE				
VALVED	YES — NO	YES — NO	YES — NO	YES — NO
VALVE TYPE				
LOCATION				
CATEGORY OF DAM				
INSPECT SHEET	YES — NO	YES — NO	YES — NO	YES — NO
CONTRACTOR				

CHEMIGATION EQUIPMENT - *Chemigation check Valve in place - tank and hook-up was taken down*

DOES CHEMIGATE	<u>YES</u> <i>1945-1951 year</i> — NO	YES — NO	YES — NO	YES — NO
MAINLINE CHECK VALVE	<u>YES</u> — NO	YES — NO	YES — NO	YES — NO
LOW PRESSURE DRAIN	<u>YES</u> — NO	YES — NO	YES — NO	YES — NO
INSPC PORT/AIR RELIEF	<u>YES</u> — NO	YES — NO	YES — NO	YES — NO
DISCHARGE 20' AWAY	<i>YES wasn't hooked up</i> — NO	YES — NO	YES — NO	YES — NO
INTERLOCK TYPE				
INJECTn PUMP TYPE				
INJECTn LINE CHECK VALVE OR POSITIVE DISPLACEMENT PUMP	YES — NO	YES — NO	YES — NO	YES — NO
INJECTION CHECK VALVE	YES — NO	YES — NO	YES — NO	YES — NO
CHEMIGATE EQUIPMENT INSTALLED PROPERLY	YES — NO <i>Not hooked up</i>	YES — NO	YES — NO	YES — NO

was not in 1970

REPORT ON INSPECTION OF PERMIT NO. 4500-3, Jim Schumacher

Star Rout A, Box 49, Pierre, SD 57501

DATE: August 8, 1995

Other permit(s) associated with the project: None

**DIVERSION POINT LEGAL LOCATION: The approximate center of the NW¼
Section 13, T112N, R80W**

WELL INFORMATION:

- 1) Well Drilling Firm: **Dakota Boring**
- 2) No. of Wells - **One**
- 3) Depth(s) **170 feet**
- 4) Well log is available **Yes**
- 5) Comment:

Casing:

- 1) Diameter **4 ½ inches** (drill hole diameter)
- 2) Length **feet**
- 3) Type **Plastic**

Screen:

- 1) Type **Plastic**
- 2) Length **feet**
- 3) Static water level **feet**

Pump:

- 1) Make **Fairbanks Morse**
- 2) Model - **No model number available on pump**
- 3) Size
- 4) Capacity **GPM - 800 gpm**

Motor:

- 1) Make **General Electric**
- 2) Model No. **5K6257XM500C**
- 3) Horsepower rating **100 hp (RPM 1765)**

DISTRIBUTION LINES OR CANALS: Not applicable - well is located right at center pivot

SYSTEM TYPE:

Center pivot:

- 1) Make **Electrogator - Make 680**
- 2) Overall length **1312 feet**
- 3) Number of towers **8**
- 4) Distance between towers **feet**
- 5) End gun **No**
- 6) High or low pressure - **High**
- 7) Capacity **800 GPM**

Inspection of No. 4500-3 continued

Gun:

- 1) Make
- 2) Nozzle size inches
- 3) Capacity GPM
- 4) Hose size inches

CHEMIGATION EQUIPMENT:

- 1) Does chemigate Yes (1995 was his first year of chemigating)
- 2) Main line check valve Yes
- 3) Inspection port/air relief Yes
- 4) Low pressure drain Yes
- 5) Discharge is 20' from source was not hooked up at time of inspection - Mr. Schumacher had removed the chemigation equipment from the system for 1995. I reminded him of this requirement.
- 6) Interlock type not hooked up at time of inspection
- 7) Injection pump type not hooked up at time of inspection
- 8) Injection check valve not hooked up at time of inspection
- 9) Injection line check valve or positive displacement pump not hooked up at time of inspection
- 10) All chemigation equipment appears to be installed in the proper position and complies with chemigation laws and rules - from my discussion with Mr. Schumacher regarding his equipment it appears that he is complying with chemigation rules
- 11) Comments :

PERMIT QUALIFICATIONS AND REGULATIONS:

- 1) Soil and water permit lands agree with lands being irrigated and lands listed on permit Yes
- 2) Special qualifications to permit being abided by Yes
- 3) All structures, wells and lands on map Yes
- 4) Irrigation Questionnaires checked to determine if permit owner started irrigation by the end of construction period No IQ on file for 1981, 1982 IQ shows irrigation took place (1983-1993 IQ show irrigation took place - 1994 not irrigated)

Form 12

Permit No. 4500-3, Jim Schumacher
Missouri River - Water District
Hydrologic Unit - 10130105

Report Of Examination Of Works And/Or Application of Water To Beneficial Use

TO: Chief Engineer, Water Rights Program, DENR, Foss Bldg., Pierre, SD 57501

I have this day, **August 8, 1995**, made a thorough examination of the water use system constructed by **Jim Schumacher**, of **19734 285 Avenue, Pierre, SD 57501** holder of **Permit No. 4500-3**, bearing the priority of **January 24, 1980** authorizing the diversion of **1.95 cu. ft. of water per second** for irrigation purposes, in **Hughes County**.

I have to report on the conditions of the same as follows:

- A. Works used to divert the water: **An 170 foot deep well**
- B. Works used to transport water to place of use: **A Fairbanks Morse pump and a 100 hp General Electric motor.**
- C. Works used to apply water to beneficial use: **An Electrogator (Make 680) center pivot**

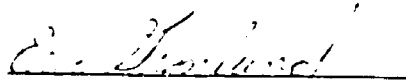
The system is in the following condition **Good**. The point of diversion is located in the **approximate center of the NW¼ Section 13, T112N, R80W**. The works are capable of diverting and conveying to the place of use **1.78 cu. ft. per second** of water to be used for irrigation purposes. Water has been put to beneficial use to the maximum extent as follows:

All in Section 13, T112N, R80W

NW¼ NW¼ - 33 acres
NE¼ NW¼ - 33 acres
SW¼ NW¼ - 33 acres
SE¼ NW¼ - 33 acres

comprising a total of **132 acres** of land and the license should be issued for **1.78 cfs**
Applicable permit qualifications have been complied with: **Yes**

Exceptions to compliance are: **None** Date: **November 17, 1995**



Eric Gronlund
Natural Resources Engineer
DENR, Water Rights Program

CORRECTION TO WATER RIGHT, NO. 4500-3

DATE OF INSPECTION: 8-8-95

NAME & ADDRESS OF LICENSE HOLDER: Jim Schumacher, 19734 285th Ave., Pierre, SD 57501

DIVERSION POINT LEGAL LOCATION: The approximate center of the NW¼ Section 13, T112N, R80W.

WELL INFORMATION: The inspection and original report were done by Eric Gronlund. This report is to correct the well that is used by Water Right No. 4500-3. The well on the original report was the wrong well. The license needs to be corrected with the correct well data. The location of the well remains the same.

- 1) Well Drilling Firm: Huron Drilling
- 2) No. of Wells 1
- 3) Depth(s) 181 feet
- 4) Well log is available yes

Casing:

- 1) Diameter 14 inches
- 2) Length 171 feet
- 3) Type pvc

Screen:

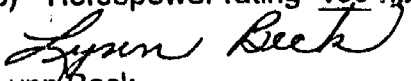
- 1) Type stainless steel
- 2) Length 10 feet
- 3) Static water level 129 feet

Pump:

- 1) Make Fairbanks Morse
- 2) Model #
- 3) Size #
- 4) Capacity 800 GPM

Motor:

- 1) Make General Electric
- 2) Model No. 5K6257XM500C
- 3) Horsepower rating 100 hp


Lynn Beck

Natural Resources Engineer
DENR, Water Rights Program
November 17, 1999



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3181

December 4, 1995

4500-3
5700-3

Jim and Charlene Schumacher
19734 285 Avenue
Pierre, SD 57501

Dear Mr. and Ms. Schumacher:

The inspection of your water use system and the inspection of the extent of application of water to beneficial use, as developed under Water Permit Nos. 4500-3 and 5700-3, has been completed. Your final water right documents, the Water Licenses, can now be issued.

Statutes require a \$50.00 fee per license for the inspection and issuance of the Water Licenses. Upon receipt of the \$50.00 fee per license (\$100.00 total) from you, we will begin processing your Water Licenses.

Please remit the fee within 30 days to:
Department of Environment & Natural Resources
Water Rights Program
523 E. Capitol
Pierre, SD 57501-3181

Sincerely,

Cheryl F. Frost
Secretary
Water Rights Program
(605) 773-3352

NOTE: On check or money order, please specify your permit numbers. This will insure proper handling of the fee.



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3181

APR 4 1996

4500-3
5700-3

Jim and Charlene Schumacher
19734 285th Avenue
Pierre, SD 57501

Dear Mr. and Ms. Schumacher:

Enclosed are Water License Nos. 4500-3 and 5700-3. These are the final water right documents completing your process of obtaining Water Rights. Enclosed are Receipt Nos. 414754 and 414755 in the amount of \$50.00 each which you paid for the inspection and issuance of the Water Licenses.

For your information SDCL 46-6-27 requires that if the owner of an existing well, such as the wells authorized by Water Right Nos. 4500-3 and 5700-3, constructs a replacement well and does not plan to use the old well, the old well is considered abandoned and must be plugged. Also, any well that is being used or is not considered abandoned must be valved and controlled, if flowing, or sealed and capped so that no leaking occurs either underground or at the surface.

As long as you use the water beneficially, as stated in the Water Licenses, the State Water Laws provide that you have a continuing right to use the water. If you have any questions, please contact our office.

Very truly yours,

JOHN HATCH, Chief Engineer
Water Rights Program
(605) 773-3352

ks
enclosures

RECEIPT

Division of Water Rights

South Dakota Department of Environment and Natural Resources

4500-3
414754

Pierre, _____ January 11, 19 96

RECEIVED OF JAMES F SCHMIDTNER, PO Box 55, Pierre, SD 57501

the following amount in fees for services rendered as provided for by law:

Fee for Application for Permit No. _____ to Appropriate Water, to construct and to put water to beneficial use _____		
Fee for Application for Permit No. _____ to Appropriate Water, for Future Use _____		
Fee to retain Future Use Permit No. _____ after period of seven years.		
Fee for Inspecting Constructed Works, confirming beneficial use and issuing Water License No. <u>4500-3</u>	50	00
Fee for Filing Transfer Form _____		
Fee for Filing Extension Request _____		
Fee for _____		

(Any Other Work Provided by Law)	Total	50 00

By John H. H. H. H.
Chief Engineer

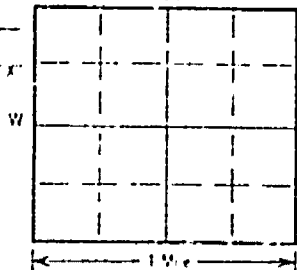
SOUTH DAKOTA WATER WELL COMPLETION REPORT

07-92

4500-3

Location Sec 13 Twp 112 N Rg 80
 County DeWitt
 Township 112 N
 Range 80 W

Please mark well location with an "X"

Well Completion Date 7-22-93

LOCATION:

Distance from nearest potential pollution source (septic tank, abandoned well, dried lot, etc.) 500 ft. from Septic Tank (identify source)

PROPOSED USE:

☐ Domestic/Stock ☐ Municipal ☐ Business ☐ Test Holes
☒ Irrigation ☐ Industrial ☐ Institutional ☐ Monitoring well

METHOD OF DRILLING:

Rotary

CASING DATA:

☐ Steel ☒ Plastic ☐ Other

If other device:

PIPE WEIGHT DIAMETER FROM TO HOLE DIAMETER
1 1/2 LB/FT 1 1/2 IN 0 FT 171 FT 2 1/2 IN
1 1/2 LB/FT 1 1/2 IN 171 FT 181 FT 2 1/2 IN

GROUTING DATA

Grout Type Portland No. of Sacks 20 Grout Weight 200 lb/gal 0 ft 0 ft
 lb/gal ft ft

Describe grouting procedure:

Unmolded Pump

SCREEN: ☐ Perforated pipe ☒ Manufactured

Diameter 1 1/2 IN Length 10 FEET
 Material SS Steel
 Slot Size 70 Set from 181 feet to 191 feet
 Other information

WAS A PACKER OR SEAL USED? ☒ YES ☐ NOIf so, what material? BentoniteDescribe packer(s) and for use? 140-160

DISINFECTION:

Was well disinfected upon completion? ☒ YES, How X
 NO, Why Not?

Laboratory sent to for water quality analysis

Well Owner Jim Schemmchen
 Business Name WOP 1137 Box 149
 Address TIGER, S. DAK

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
<u>Terrace</u>	<u>0</u>	<u>5</u>
<u>Yellow Clay</u>	<u>5</u>	<u>20</u>
<u>Blue Clay</u>	<u>20</u>	<u>140</u>
<u>Gravel</u>	<u>140</u>	<u>181</u>

STATIC WATER LEVEL 189

Feet

If flowing, closed in pressure

GPM flow through

Controlled by ☐ Valve ☐ Reducers ☐ Other

Reduced Flowrate

Can well be completely shut in?

WELL TEST DATA:

☒ Pumped Describe: TURBINE PUMP☐ Galled☐ Other

Pumping Level Below Land Surface

151 ft After 4 Hrs pumped 800 GPM

ft After Hrs pumped GPM

If pump installed, pump rate GPM

REMARKS

Spin Well Completed
For Dakota Boring As
Per Variance From Kent
Beckler Div of Water
94 Rights

It is well was drilled under license #

And this report is true and accurate.

Drilling firm Dean Drilling, Inc

Signature of License Representative

Signature of Well Owner or Liable Property Holder

Date July 20, 93

STATE OF SOUTH DAKOTA
 MICROFILM CERTIFICATE OF AUTHENTICITY
 THIS IS TO CERTIFY THAT THE MICROFILM IMAGE APPEARING ON THIS SIDE OF MICROFILM IS AN ACCURATE REPRODUCTION OF THE ORIGINAL RECORD AND WAS MICROFILMED IN THE REGULAR COURSE OF BUSINESS ACCORDING TO THE PROVISIONS OF SECTION 1-27-4 OF THE SOUTH DAKOTA CODIFIED LAWS. IT IS FURTHER CERTIFIED THAT THE PHOTOGRAPHIC PROCESS USED FOR MICROFILMING OF THE ABOVE RECORDS WAS IN A MANNER AND ON MICROFILM WHICH MEET THE RECORD MAINTENANCE REQUIREMENTS OF ADMINISTRATIVE RULES OF SOUTH DAKOTA 10-04-01 AND 10-04-02 FOR MICROGRAPHIC REPRODUCIBILITY.
 25-1
 REDUCTION RATIO
 FOLI NUMBER
 DATE MICROFILMED
 3-18-94
 CARROLL OPERATOR SIGNATURE

W 13 T112N R80W

Im Schenken Weiß
7-22-93

7-22-93

Dear Dr. H. T. Lee,



Per General
181 - 12

2211
Gottlieb

125215-1111
14

✓ Doc
Sch A to

Account of -
20'

- Fox Rock
20' - 100'

Spent 100' -
130'

20' 14"
3/otted # 80
5/ott

304
S.S. Well
Gravel 17 to
Silt 10'
Loring

STATE OF SOUTH DAKOTA

MICROFILM CERTIFICATE OF AUTHENTICITY

THIS IS TO CERTIFY THAT THE MICROGRAPHIC IMAGE APPEARING ON THIS SLIDE OF MICROFILMS AN ACCURATE REPRODUCTION OF THE ORIGINAL RECORD AND WAS MICROFILMED IN THE REGULAR COURSE OF BUSINESS ACCORDING TO THE PROVISIONS OF SECTION 1-27-4 OF THE SOUTH DAKOTA CODIFIED LAWS. IT IS FURTHER GUARANTEED THAT THE PHOTOGRAPHIC PROCESS USED FOR MICROFILMING OF THE ABOVE RECORDS WAS IN ACCORDANCE WITH THE STANDARDS AND REQUIREMENTS OF THE NATIONAL ARCHIVES AND RECORDS ADMINISTRATION.

DATE MICROFILMED: 3-18-94

ROLL NUMBER: U-9

REPRODUCTION PART: 25-1

CAMERA OPERATOR SIGNATURE: *Clark M. S. Clark*

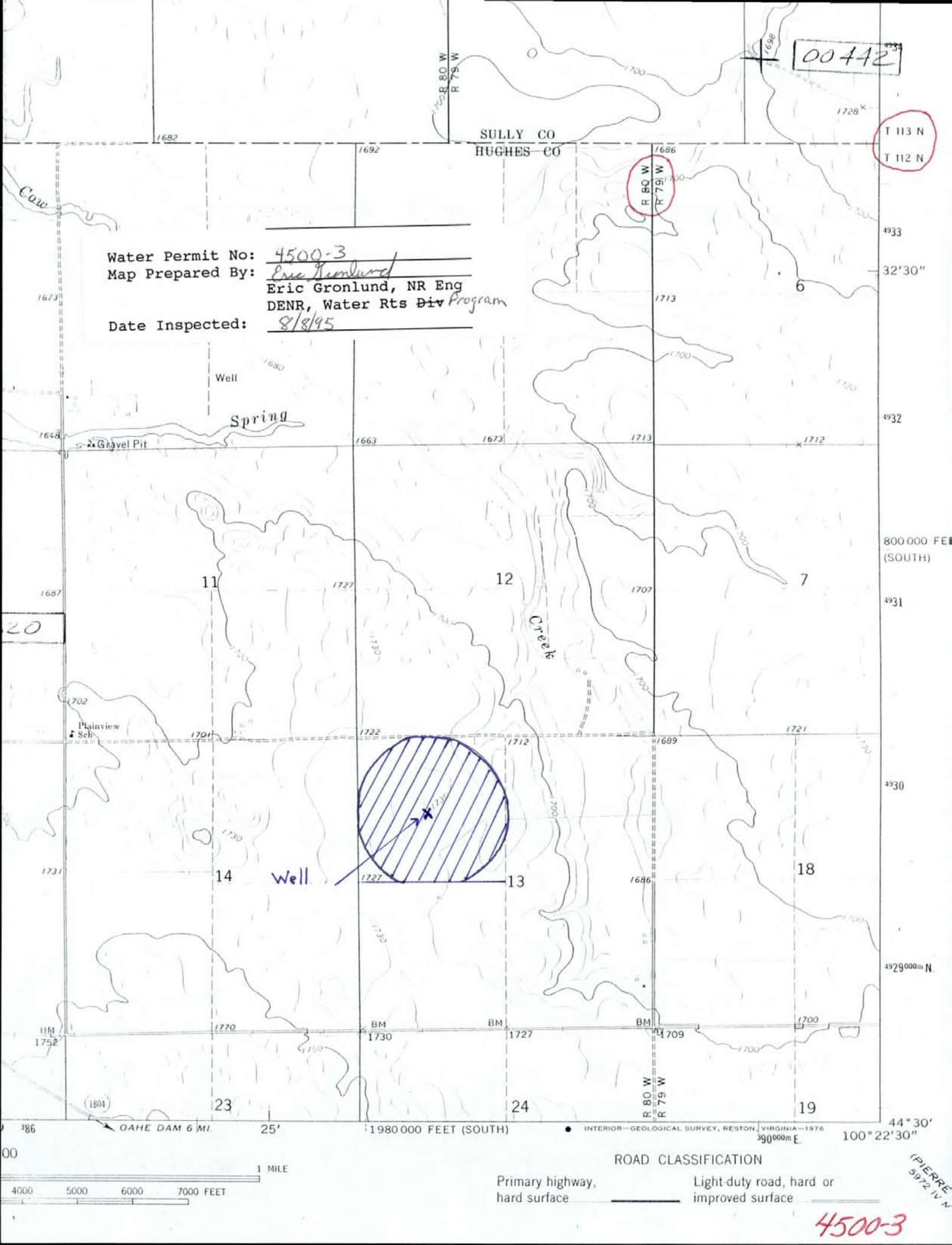
00442

T 113 N
T 112 N

SULLY CO
HUGHES CO

R 80 W
R 79 W

Water Permit No: 4500-3
Map Prepared By: Eric Gronlund
Eric Gronlund, NR Eng
DENR, Water Rts Div Program
Date Inspected: 8/8/95



800 000 FEET
(SOUTH)

4929000m N

44° 30'
100° 22' 30"

ROAD CLASSIFICATION

Primary highway,
hard surface

Light-duty road, hard or
improved surface

4500-3

(PIERRE)
5972 N N